Piezo resistive Accelerometer
BST 63K2 Triaxial

Features
- Anodized Aluminium Housing
- DC Response
- Voltage Output
- 5-, 8- and 12 wire system

Description
The new model BST 63K2 is a triaxial accelerometer based on variable capacitive technology with a very good Signal-to-Noise Ratio. The accelerometers are designed for relatively low amplitudes. Do to the mounting with two screws. The sensor has 6m very high rugged and flexible cable this makes it easy to connect the sensor on data acquisition systems. It operates between 8 and 30 VDC unregulated. The housing is available in Aluminium.

As an option, we supply the sensor with connector, Dallas ID or TEDS module.

A calibration for the sensor is obligatory.

Application
- Comfort
- Automotive
- Truck and Busses
- Train

Dimensions

<table>
<thead>
<tr>
<th>X</th>
<th>Y</th>
<th>Z</th>
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<tbody>
<tr>
<td>16.0</td>
<td>16.0</td>
<td>23.6</td>
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<td>19.6</td>
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All dimensions in mm

positive output

Ø = 3.1
Specifications

Range 1 g to 200 g
Supply voltage 8 to 30 VDC unregulated
Power Consumption max. 3 mA per axe
Zero measurement output +/- 30 mV typ in Differential Mode (> 2 g)

Sensitivity

Frequency 5% typ 0 Hz to 1000 Hz
Shock limit 2000 g (2 g and 5 g); 4000 g (>10 g)
Operation Temperature -25° to 100° C
Weight 20 grams
Dimensions 23.6 x 16.0 x 18.0 mm (l x w x h)
Case material anodized Aluminium

Individual Data

Range g 1 2 5 10 30 50 100 200
Frequency Hz 0-60 0-90 0-90 0-500 0-800 0-1000 0-1000 0-1000
Sensitivity mV/g 2000 1000 400 200 67 40 20 10

Cable Code

5 wire
red = Excitation +
white = signal x
black = Excitation -
yellow = signal y
green = signal z

8 wire
red = Excitation +
black = Excitation -
x-axis
green / violet = Signal +
white / violet = Signal -
y-axis
green / grey = Signal +
white / grey = Signal -
z-axis
green = Signal +
white = Signal -

12 wire
x-axis
red / violet = Excitation +
black / violet = Excitation -
green / violet = Signal +
white / violet = Signal -
y-axis
red / grey = Excitation +
black / grey = Excitation -
green / grey = Signal +
white / grey = Signal -
z-axis
red = Excitation +
black = Excitation -
green = Signal +
white = Signal -

Order information

BST 63K2A-050-6Z
63K2 = Model Name
A = Aluminium
050 = Range 50 g
6 = 6 m shielded cable
Z = no connector